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tion, we obtain the expression (1). If a reinforcement in the shape of a ring is inserted between the two cylinders (e.g., for pipe couplings) (Fig. 2), a similar expression can be obtained by a similar method. The tilt of the ring, which has a central cross-sectional moment of inertia in relation to the horizontal axis J, and which is loaded by external moments  $M_1$  and  $M_2$  is

 $\left(\frac{\mathbf{p} \cdot \mathbf{r} \cdot \mathbf{e}}{2} - \mathbf{M}_1 - \mathbf{M}_2\right) \cdot \frac{\mathbf{r}^2}{\mathbf{E} \cdot \mathbf{J}} .$ 

The tilt of the upper and lower cylinder parts, whose ends are loaded by internal moments  $M_1$  and  $M_2$ , respectively, is

 $\frac{M_1}{\beta_1}$  and  $\frac{M_2}{\beta_2}$ 

Deformation conditions are derived from the equality of tilt angles of all three parts, namely

 $\left(\frac{{\rm p} \ {\rm r} \ {\rm e}}{2} - {\rm M}_1 - {\rm M}_2\right) \, \frac{{\rm r}^2}{{\rm E} \ {\rm J}} = \frac{{\rm M}_1}{\beta_1 \ {\rm D}_1} \ ; \quad \frac{{\rm M}_2}{\beta_2 \ {\rm D}_2} = \frac{{\rm M}_1}{\beta_1 \ {\rm D}_1} \ . \label{eq:model}$ 

From these, the moment  $M_1$  and additional bending stress  $\sigma_{01}$  can be established. After adjustment the expression for this stress component is

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$$d_{01} = \frac{3 p r e}{h_1^2} \frac{h_2^{\frac{5}{2}}}{h_1^{\frac{5}{2}} + h_2^{\frac{5}{2}} \left[1 + \frac{12 (1 - v^2) J}{\sqrt{3 (1 - v^2) r^{\frac{3}{2}} h_1^{\frac{5}{2}}}}\right]}.$$
 (2)

2) Stresses arising in the vessel wall in the vicinity of supports. Similar additional stresses are also effected by supports of reactor internals (Fig. 3). They act as hoops and cause bending stresses. Maximum value of their axial component is (Ref. 1, p. 205)

$$\sigma_{0} = \frac{3 p r}{h \sqrt{3 (1 - v^{2})}} \frac{1 - \frac{t h}{F}}{1 + \frac{2 h}{4 \sqrt{\frac{3 (1 - v^{2})}{r^{2} h^{2}}}}}$$
(3)

X

where F is the area of the support's cross section. Additional stresses in cross sections 2/2 could be obtained from the above relations by interchanging the in-

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dices 1 and 2. If stresses arising in the vicinity of collar-reinforced ports are to be determined, their distribution is more reliably established by tensiometric measurements, particularly in large reactor vessels where the fabrication is limited by the maximum weight of ingots so that it is impossible to reinforce the ports in conformance with the code. A bending moment is also introduced into the vessel wall at the points where the vessel rests against supports. From the viewpoint of material stress it is advisable to distribute the effects of the reaction around the entire circumference of the vessel, so as to avoid formation of isolated forces and moments. In very large and heavy reactors operating at comparatively low internal overpressures the reaction effect on the overall wall stresses is greater than in reactors operating at overpressures of 60, 100, or more atm, since the total weight represents but a small percentage of the resultant axial force given by the overpressure. It has to be emphasized that stresses involved in all the above cases are the so-called shell stresses, which have a linearly variable pattern through the wall thickness and, for a given permissible stress, prevent an economical utilization of the mechanical properties of the vessel material. It is, therefore, necessary to avoid sources of this

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stress by maintaining a uniform wall thickness. In addition to the shell stresses, narrow, local peaks due to the concentration of lines of force arise at sudden changes of the wall thickness and in the transition areas of the wall into ports. In determining their magnitude we have to depend on tensiometric and / or photoelastometric measurements. The problem of stress concentrations in the wall is of similar significance, since it has to be considered that irradiated material changes its mechanical properties after some time and the danger of brittle fractures arises. 3) Increase of stress in the transition area between the vessel and the lower head. Increased stresses can occur in the transition area between the vessel and the lower head. A large majority of reactors, existing or projected, therefore, use a hemispherical or elliptical lower head rather than a flat one. Greater fabrication difficulties required by the former are compensated for by their lower weight, smaller deformation due to internal overpressure, and a more uniform cooling and / or heating at shutdowns and startups. 4) Distribution of stresses in the vicinity of inlet and outlet pipe penetrations. The stress distribution in the penetration-weakened part of a reactor head presents a laborious calculation task. In a hemispherical head (Fig. 4), the transition stresses from the unweakened to the weakened part and to

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the flange can be determined by a rough calculation. The mean value of the increase of the centerline radius in the free and weakened part of the sphere, due to the overpressure p, is larger by a value  $\frac{1}{t-d}$  than that of the unweakened part. From the condition of continuity of the deformed area and its first derivative according to an independent variable  $\vartheta$ , the marginal forces  $x_{1,2}$  and moments M1 2 can be determined and on their basis also the mean values of additional stresses. A more accurate idea of the stress distribution in the weakened part of a hemispherical head can be obtained by comparing it to a system of meridian ribs of variable thicknesses, connected by parallel rings. This involves the solution of a system of linear algebraic equations that can be handled only by a computer. Results obtained can then be verified by tensiometric measurements which are already being conducted at several Czechoslovak research facilities. 5) Thermal stresses due to uneven distribution of heat across the wall thickness and the vessel-body length. In calculating the strength of reactor vessels, the problem of thermal stresses is of great significance. Temperature drops of increases across the wall thickness are due to the natural heat transfer from the reactor to the surroundings on the one hand, and to the radiation

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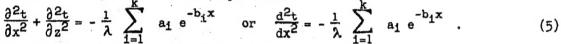
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heating on the other. If we introduce a new variable x (Fig. 5), the heat developing due to neutron flux and primary gamma radiation is expressed by the approximate relation

 $q = \sum_{i=1}^{k} a_i e^{-b_i x}$  (4)

where  $a_1$  and  $b_1$  are physical constants. With the rotation symmetry preserved, the magnitude of thermal stresses can be determined by the solution of two one-dimensional problems. At given coefficients of heattransfer on the inner and outer surfaces of the vessel wall, the distribution of heat at a steady state is given by the solution of the differential equation  $\Delta^2$  the  $\Delta^2$ . In thin-walled cylinders or spheres with an outside-to-inside diameter ratio of 1.2 or less, the Poisson equation has the simple form



The tangential, radial and axial components of thermal stress in a cylinder are given by the relations (6) in which t is substituted by the solution of the

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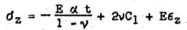
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first of the above 2 equations

$$\sigma_{\mathbf{r}} = -\frac{E \cdot \alpha}{(1 - \nu) \mathbf{r}^2} \int_{\mathbf{a}}^{\mathbf{r}} \mathbf{t} \left( \varrho \right) \varrho \, \mathrm{d}\varrho + C_1 + \frac{C_2}{\mathbf{r}^2}$$

$$\sigma_{\mathbf{e}} = \frac{E \, \alpha}{(1 - \nu) \mathbf{r}^2} \int_{\mathbf{a}}^{\mathbf{r}} \mathbf{t} \left( \varrho \right) \varrho \, \mathrm{d}\varrho - \frac{E \, \alpha \, \mathbf{t}}{1 - \nu} + C_1 + \frac{C_2}{\mathbf{r}^2}$$
(6)



Similar relations (7) are also valid for a sphere. Here t is substituted by the solution of the second equation (5)

$$\sigma_{\mathbf{r}} = -\frac{E \alpha}{(1 - \nu) r^{3}} \int_{a}^{r} t (\varrho) \varrho^{2} d\varrho + \frac{c_{1} E}{1 - 2\nu} - \frac{2 c_{2} E}{(1 + \nu) r^{3}}$$

$$\sigma_{\bullet} = \frac{E \alpha}{(1 - \nu) r^{3}} \int_{a}^{r} t (\varrho) \varrho^{2} d\varrho + \frac{c_{1} E}{1 - 2\nu} + \frac{c_{2} E}{(1 + \nu) r^{3}} - \frac{\alpha E t}{1 - \nu}$$
(7)

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where E is the elasticity modulus of the material,  $\nu$  the Poisson ratio of the material, a the inside radius of the wall,  $\alpha$  the thermal expansion coefficient, and  $C_1$  and  $C_2$  are constants derived from the condition of the zero radial stress at the internal and external wall surfaces, respectively. In the relations pertaining to a cylindrical vessel, there is a value  $\varepsilon_2$ . This is the specific elongation in axial direction and its magnitude is determined from the condition of the zero resultant of force along the cylinder axis. The above relations and their derivation can be found, e.g., in Timoshenko's work (Ref. 2, pp. 401, 411). A non-uniform heat distribution along the axis of a cylindrical vessel will also provoke a stress in the wall and its peripheral and axial components are given by relations (8) (Ref. 4, p. 204):

$$\sigma_{z} = -\frac{E\left(x - \frac{h}{2}\right)}{1 - v^{2}} \frac{d^{2}u}{dz^{2}} - \frac{E\alpha}{1 - v} \left[ t(x, z) - \frac{1}{h} \int_{0}^{h} t(x, z) dx \right] 
\sigma_{e} = \frac{Eu}{r} - \frac{Ev\left(x - \frac{h}{2}\right)}{1 - v^{2}} \frac{d^{2}u}{dz^{2}} - \frac{E\alpha}{1 - v} \left[ t(x, z) - \frac{1}{h} \int_{0}^{h} t(x, z) dx \right]$$
(8)

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The function u(z) is the radial shift of the cylinder centerline and is obtained by the solution of the differential equation (9)

$$\frac{d^4u}{dz^4} + 4\beta^4u = \frac{E\alpha}{D r_{str}} \int_0^h t (x, z) dx$$
 (9)

The constants of the general integral result from marginal conditions.  $\beta$  is the damping coefficient. Thermal stresses in a thick-walled cylinder at a rotationally asymmetric heat distribution have been solved by Melan and Parkus (Ref. 3). The heat in this case is a harmonic function of independent variables  $\varphi$  and r, as can be seen from the relation (10)

$$t = \sum_{n=1}^{\infty} [(a_n r^n + b_n r^{-n}) \cos n \varphi + (c_n r^n + d_n r^{-n}) \sin n \varphi].$$
 (10)

The constants  $a_n$  through  $d_n$  are obtained by a comparison to the Fourrier series in which the functions of heat are distributed on the internal and external surfaces. The authors introduce into the calculation a so-called heat potential  $\boldsymbol{\phi}$ , analogous to the Airy function, whose derivatives are components of the thermal

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stress, and which meets the Poisson equation  $\Delta \phi = \frac{1+\nu}{1-\nu} \alpha t$ (11).areas of wall-thickness changes (e.g., near pipe couplings) the heat and stress distribution is the function of three variables. An approximate calculation can be made for a limited range of cross sections only, namely for those, in which = 0 (Fig. 6) (Abstracter's note: Figure 6 is not shown in the article) For these cross sections the problem can be transformed into a planar one and solved, e.g., by the net-chart method. 6) Increase of thermal stresses at non-stationary operating conditions. Additional stresses can temporarily originate at a nonuniform heating or cooling of certain reactor parts. If, for instance, a reactor vessel has a flat head of uniform thickness, the ratio of thicknesses, at a weakening coefficient by the field of penetrations  $\psi$  , and at equal maximum stress,

(12)

 $\frac{h_d}{h_v} = 1.114 \sqrt{\frac{dt}{\psi p}}$  (1) where  $h_d$  is the head thickness,  $h_v$  the thickness of the versel wall, and p the internal overpressure. It can be seen that at a reactor shutdown the head will cool off much more slowly than the vessel walls and due to its great radial ri-

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gidity it will create considerable additional stresses in the vessel walls. It is, therefore, necessary to place a compensating insert between the head and the vessel, or to ensure that at startups and / or shutdowns a certain maximum temperature difference is not exceeded. (Edited by B. Stočes and J. Kuchta.) There are 5 figures and 4 references: 1 Czech, 1 Austrian and 2 Soviet.

ASSOCIATION: Státní výzkumný ústav tepelné techniky (<u>State Research Institute</u> of Thermal Engineering) in Prague

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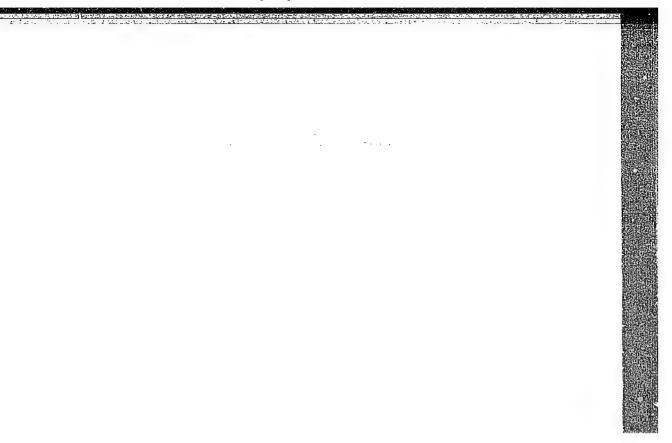
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CZECHOSLOVAKIA/Chemical Technology - Chemical Products and H-16 Their Application - Industrial Synthesis of Dyestuffs.

: Ref Zhur - Khimiya, No 3, 1958, 8960 Abs Jour

: Arient Josef, Dvorak Jan Author

Triphenylmethane Dyes. I. Condensation of N-Monomethyl-Inst Title

Cumidine with Formaldehyde, Michler's Ketone and o-Chlo-

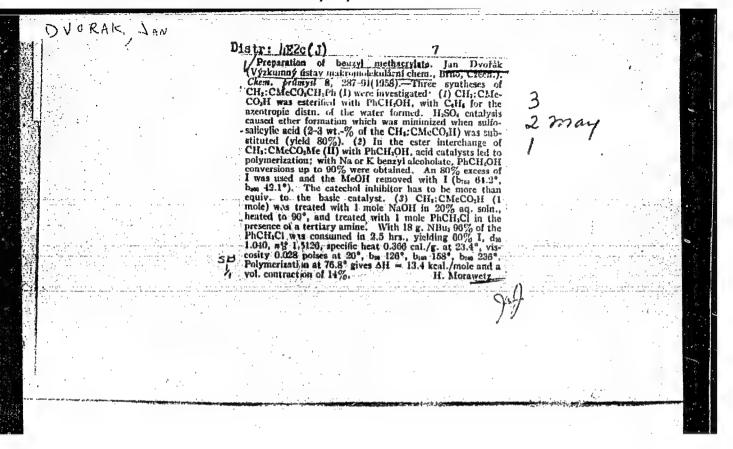
robenzaldehyde.

: Chem. listy, 1956, 50, No 12, 1974-1978; Sb. chekhosl. khim. rabot, 1957, 22, No 2, 468-472 Orig Pub

: By dropwise addition of 9.3 g H\_SO<sub>h</sub>, diluted with 4.5 ml. Abstract

water, and 10.7 g o-chlorobenzafdehyde, to 22.4 g N-methyl-o-cumidine (I) in a CO2 atmosphere, heating of the mixture for 24 hours, pouring into 200 ml water and making alkaline with NH4CH, were obtained 30.2 g of 4,41--bis-methylamino-3,3'-diisopropyl-2"-chloro-triphenyl-methane (II), MP 133.5-1340 (from alcchol). By oxidation

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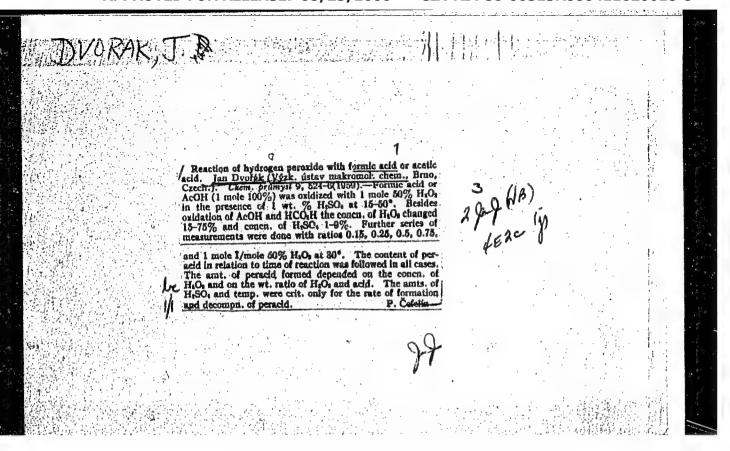
H-29 Czechoslovakia COUNTRY CATEGORY 1959. No. 73179 : RZKhim., No. ABS. JOUR. : Dvorak, J.; Zdrazil, J. AUTHOR : Determination of the Degree of Substitution INST. of N-Methoxymethyl-Polycaprolactam by the TITLE Melting Point : Chem. prumysl, 1958, 8, No 8, 446-447 ORIG. PUB. : It was found that it is possible to determine the degree of substitution of polycaprolactam (I) by the N-alkoxymethyl groups, from its melting point. By heating a 15% aqueous-alcohol solution of substituted I for 30 minutes at 50-60°, and adding NaOH to a pH of 9, the methylol groups are split off, while retaining the alkoxymethyl groups. After cooling of the solution, I is isolated. Froducts with a degree of substitution exceeding 30% are precipitated from the solution with water, to the resulting mixture is added acetone (II) until complete dissolution is effected and thereafter more I [sic -- II ?] is added until N-substituted I is precipitated in the form of small CARD: 1/2 109

CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic G-2 Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77614.

Abstract: C<sub>6</sub> H<sub>6</sub> from petroleum ether. VII can also be prepared in 92% yields with the oxidation of VI by a procedure similar to that used in the preparation of V. The diazotization of 0.03 mol paraleucoaniline (VIII) in the presence of KBr, followed by reaction with 0.1 mol III and treatment similar to that used in the case of IV, give 96% yields of (C<sub>6</sub>H<sub>5</sub>)<sub>2</sub> CHN = NR''-p (purification as in the case of VII) which is oxidized by a procedure similar to that used with V to give 99% yields of CH(C<sub>6</sub> H<sub>4</sub> R'-p)<sub>3</sub> (IX), mp 206-208° (after drying for several days at 110° in vacuuo); following precipitation from benzene solution by the addition of petroleum ether, IX is found to contain

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S/081/62/000/023/104/120 B101/B186

AUTHORS: Dvořák, Jan, Müller, Jaroslav, Zlámal, Zdeněk

TITLE: Method of producing high-molecular weight polyacetaldehyde

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 23, 1962, 719, abstract

23P355 (Czechosl. pat: 100322, July 15, 1961)

TEXT: Rubberlike high-molecular weight polyacetaldehyde of linear structure, soluble in organic solvents, is obtained by polymerization (PM) of the acetaldehyde (I) at -100 to -30°C in the presence of H<sub>2</sub>SO<sub>4</sub>, HCl, H<sub>3</sub>PO<sub>4</sub>, CCl<sub>3</sub>COOH, H<sub>2</sub>C<sub>2</sub>O<sub>4</sub>, NaHSO<sub>4</sub>, KHSO<sub>4</sub>, (NH<sub>4</sub>)<sub>2</sub>S<sub>2</sub>O<sub>8</sub>. The initial I must be carefully purified. Basic substances inhibit the reaction. Example: 10<sup>-6</sup> - 10<sup>-5</sup>% H<sub>2</sub>SO<sub>4</sub> is added to I cooled to -78°C. PM proceeds almost instantly. With addition of 0.001% H<sub>3</sub>PO<sub>4</sub>, 0.01 - 0.1% CCl<sub>3</sub>COOH, or 0.01% KHSO<sub>4</sub>, PM takes some hours. [Abstracter's note: Complete translation.]

Card 1/1

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Thermoplastic polyether Penton. Chem prun 12 no.7:388-389

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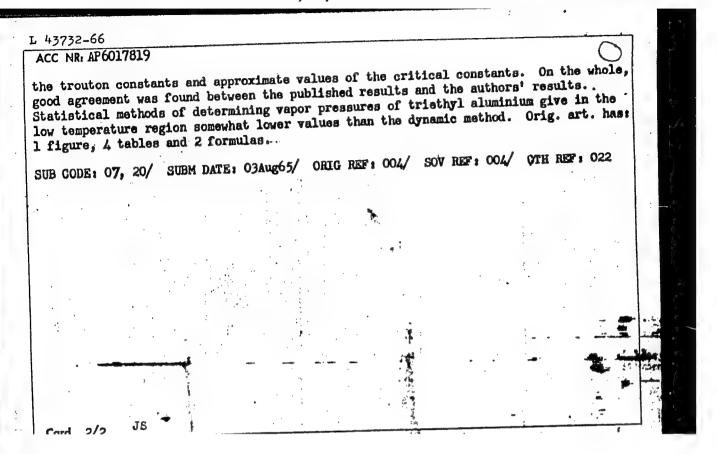
Chlorination of pentaerythritol tetrascetate. Chem prum 12 no.10:535-538 0 62.

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ACC NR. AF6017819  SOURCE CODE: CZ/0009/65/000/012/0732/0735  AUTHOR: Fic, Vojtech; Dvorak, Jan  ORG: Research Institute of Macromolecular Chemistry, Brno (Vyzkumny ustav makromolekularni chemie)  AUTHLE: Organo-aluminium compounds - I (Vapor pressure) of triethyl aluminium and diethyl aluminium chloride)  SOURCE: Chemicky prumysl, no. 12, 1965, 732-735  TOPIC TAGS: vapor pressure, vaporization, measurement, measuring instrument, ALUMINUM CHLORIAE, ORGANOALUMINUM COMPOUND  ABSTRACT: The purpose of this investigation was to measure the vapor pressure of triethyl aluminium and of diethyl aluminium chloride using such experimental technique as would limit to a minimum the possibility of contamination of the substances to be measured. Whereas these compounds are industrially important, there is little pub- lished data on their vapor pressure. The dynamic method was used to measure the vapor pressure of these two substances by detormining the boiling point in a vacuum distil- pressure of these two substances by detormining the boiling point in a vacuum distil- pressure used to compute the normal boiling point, the molar heat of evaporation, which were used to compute the normal boiling point, the molar heat of evaporation,	je P	
UDC: 547.256	25	



DVCRAK, JAH.

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SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

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#### DVORAK, Jan. inz.; HOFFMAN, K.

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#### CZECHOSLOVAKIA

DVORAK, J., FILSAKOVA, B: Institute for Aeronautical Medicine (Ustav Leteckeho Zdravotnictvi), Prague.

"Evaluation of Work Output in Breathing Judged by Changes in Chest Circumference."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 74

Abstract: The authors describe a recorder which they designed. The recorded curve is influenced by changes in breathing caused by variable loading, and is indicative of changes in work output. 1 Figure, no references. Submitted at the "16 Days of Physiology" at Kosice, 29 Sep 65.

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DVORZHAK, Yaroslav [Dworak, Jaroslav] (Praga); NECHAS, Indrzhikh [Necas, Jindrich] (Praga)

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Protection devices reducing the consequences of short-circuit outages in high-voltage networks. Energetika Cz 14 no.6258-274 Je 164

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1. Institute of Parasitology of the Czechoslovak Academy of Sciences, Prague, Director [Corresponding member of the Czechoslovak Academy of Sciences, DrSc.] B. Rosicky, and the Station of Imboratory and Clinical Diagnostics of the Cantral State Veterinary Institute, Pardubice, Director of the Station [MVDr.] M. Rysanek. Submitted February 12, 1964.

### (DVORAK, Jaroslav

The facial and lithological development of the Devonian and Carboniferous in the eastern Sudeten and in Moravia. Kwartalnik geol 3 no.1:30-43 \*59. (EEAI 9:8)

1. Ustredni Ustav Geologicky, Brno (Sudeten) (Czechoslovakia--Geology)

DVORAK, Jaroslav; PRIKRYL, Ivan; SOBOTA, Josef, Technicka spoluprace M.

Inolation of dermatophyta from soil. Cesk. epidem. mikrob. imum. 8 no.4:259-262 July 59

l. Ustredni mikrobiologicka laborator klinicka nemocnice v Hradci Kralove.

(SOIL, microbiol.)
(FUNGI)

### DVORAK, Jaroslav

On the problem of the anastomosis of heterogenic hyphae of dormatophytes in vitro. Sborn. ved. prac. lek. fak. Karlov univ. (Hrad Kral) (Suppl.) 4, no.4: 327-338 '61.

1. Zast. vedouci katedry mikrobiologie. (FUNGI)

DVORAK, Jaroslav; MUSIL, Rudolf; SEKANINA, Josef; ZUREK, Vladimir; TRACHTULEC, Jan; VCDA, Oldrich; CHLUPAC, Ivo; HOMOLA, Vladimir; PESEK, Jiri; ZAK, Lubor; GASPARIK, Jan

Activities of the branches of the Czechoslovak Society for Mineralogy and Caology in Brno, Most, Olomouc, Ostrava, Praha and Zilina. Cas min gool 7 no.3:385-392 62.

SKACEL, Jaroslav; MAREK, Miloslav; MIKUS, Miloslav; KNEZ, Jaroslav; PAUK, Tomas; BARTAS, Frantisek; OREL, Petr; VYBIRAL, Josef; BARTH, Vojtech; KNETTING, Petr; FOJT, Bohuslav; DVORAK, Jaroslav; KOCIAN, Jan

The 2nd Regional Geological Conference in Opava. Prir cas slezsky 23 no.1:133-143 '62.

### DVORAK, Jaroslav; MORKOVSKY, Milan

Preliminary report on the Paleozoic at the Slavkov 2 borehole in the frontal Carpathian Plain. Cas min gool 8 no.3:282-283 Jl 163.

### DVORAK, Jaroslav

Determining the age of dislocation movements between the Moldanubicum and Moravicum. Vest Ust geol 38 no.1:41-42 Ja '63.

1. Ustredni ustav geologicky, Brno.

### DVORAK, Jaroslav

Biostratigraphy of the Lower Carboniferous of the southern part of the Drahanska vrchovina. Vest Ust gool 38 no.3:161-170 My \*63.

1. Ustredni ustav geologicky, Brno.

POKORNY, Miloslav; WEISS, Jaroslav; DVORAK, Jaroslav; DLABAC, Mikulas; PESL, Vaclav; PELISEK, Josef

Fourteenth Congress of the Czechoslovak Society of Mineralogy and Geology in Brno, 1963. Cas min geol 9 no.2:251-256 '64.

DVORAK, Jaroslay; FREYER, Gunter; URBANEK, Jan

New information on the Paleozoic in the surroundings of Horni Benesov in Dolni Jesenik Mountains. Vest ust geol 39 no.5:331-339 S 164.

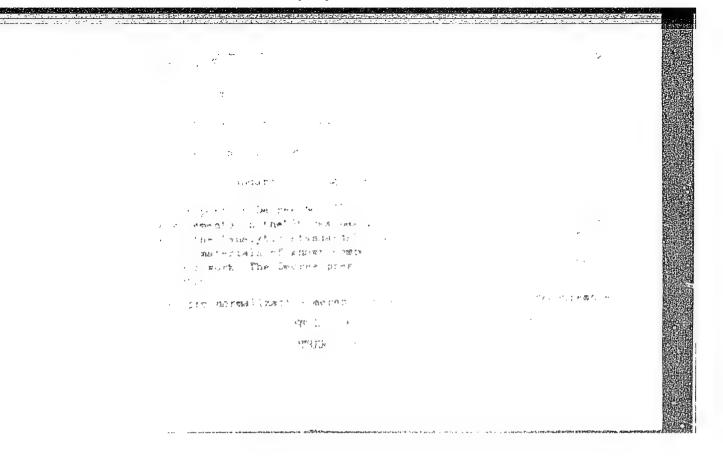
1. Ceskoslovenske naftove doly, Brno; Geologicky pruzkum National Enterprise; Rymarov (for Dvorak and Urbanek). 2. Geological Service Freiberg, German Democratic Republic (for Freyer).

DVORAK, Jaroslav, inz. CSc.; KAFKA, Vratislav, inz. CSc.

Second All Union Congress on Theoretical and Applied Mechanics. Stav cas 12 no.9:581-583 \*64.

1. Institute of Theoretical and Applied Mechanics of the Czechoslovak Academy of Sciences, Prague.

# "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411620018-8



#### "APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411620018-8

DVORAK, J. (Article # 434)

Z detskeho oddel eni Statni oblastni nemocnice v Moste. Dve kolibacilarni meningitidy u dete vylecene streptomycinem a aureomycinem Two cases of E. coli meningitis in children, successfully treated with streptomycin and aureomycin

lek. Listy 1951, 6/10 (239-292) Graphs 2

So: Excerpta Medica Vol. 5 No. 2 Sec. VIII February 1952

# DVORAK J.

DVCRAK J. Detsk. Stat. obl. nem. v Moste. Aureomycin a meningitidy zpusobene' haemofilem influenzae u deti Aureomycin in H. influenzae meningitis in children Pediat. Listy 1952, 7/1 (40-44) Tables 1

This disease is rare in Czechoslovakia (total 9 cases including the 5 reported here). Streptomycin and sulphonamides were used in all 5, plus aureomycin in 2 cases. All patients recovered. The result depends on early treatment and dosage sufficient to prevent development of resistant strains. A combination of sulphonamides, streptomycin and aureomycin is best. Blood transfusions and pyretotherapy (milk injections) are recommended.

Prochazka - Prague (XX, 7, 8)

SO: Excerpta Medica, Section VIII, Vol 5, No 10

DVORACEK, M.; DVORAK, J.; KUBOVY, A.

Antibiotics in the treatment of diarrhea in children and establishment of the sensitivity of intestinal flora, Pediat. listy, Praha 7 no.5: 291-295 Sept-Oct 1952. (CIML 23:4)

1. Of the Regional Sanitary Epidemiological Branch Station in Mosty (Head--M. Dvoracek, M.D.) and of the Pediatric Department (Head--J. Dvorak, M.D.) of Mosty Hospital.

DVORAK J. and KUBOVY A.

Children Det State Maspiel Detske Odd. Statni Hemocn., Most., Ceskoslovensko. \*Popudova therapie residualaich likvorovych nalezu prilecbe hnisavych meningitid u deti. Stimulating treatment in residual findings in the CSF after purulent meningitis in children PEDIAT. LISTY 1953, 8/3 (147-149) Graphs 1 As the body is not stimulated spontaneously to form an effective rate of resistance against micro-organisms during chemotherapeutic or antibiotic measures it must be helped, otherwise relapses occur due to resistant strains. The RES can be stimulated by injections of sterilised cow's milk intranscularly as the most easily available substance for this purpose. It is given in doses of 1.5, 1.0, 1.5 2.0, to 2.5 ml. every 2nd day in children up to one year and double those doses in older children. The authors inaugurated this method in the most deplorable of all relapses, those of purulent meningitis, in a child after the 3rd relapse. It is given also to children with resistant pleiocytosis in the CSF after adequate antibacterial treatment. Within 9 days the cell count is normal and relapses could be suppressed by the method although antibacterial treatment was stopped simultaneously. Mention is made of 5 cases; 2 meningococcal, 2 H. influensae and one Bloch - Amsterdam (XX, 7.8.) in which the micro-organism could not be identified.

SO: EXCERPTA MEDICA Vol. 7, No. 6, Section VIII, June 1954

DVORAK, J.

DVORAK, J., A. KUBOVY, Z. ZAZVORKA AND J. HONS

"A Case of HYpoalbuminemia with Aminoazoduria and Edema in an Infant." (Children's Department of the State Hospital in Host; Santral Laboratory of the State Hospital in Most).

SO: Ped. listy, Prague, Vol. 8 (1953), No. 6, pp. 340-342.

DVORAK, Jindrich, Dr.; DVORACEK, Milos, Dr.; KUBOYY, Alexandr, Dr

Rapid test for the requirement of antibietic in diarrhea in infant by means of complex sensitivity reaction. Pediat. listy 9 no.2:88-89 Ap '54.

1. Z detskeho oddeleni nemocnice v Moste, prednosta Dr Dvorak Jindrich a z krajske hygienicko-epidemiologicke stanice v Hoste, prednosta Dr Dvoracek Milos.

(DIARRHEA, in infant and child,

\*ther., antibiotics, rapid test for requirement of antibiotic by complex sensitivity reaction)

(ANTIBIOTICS, therapeutic use,

\*diarrhea in inf., rapid test for requirement of antibiotic by complex sensitivity reaction)

KRAUS, Evzen; DVORAK, Jindrich.

Allergy and immunity in infants after oral BCG vaccination according to de Assis method. Gruzlica 23 no.4:227-234 Apr.. 155.

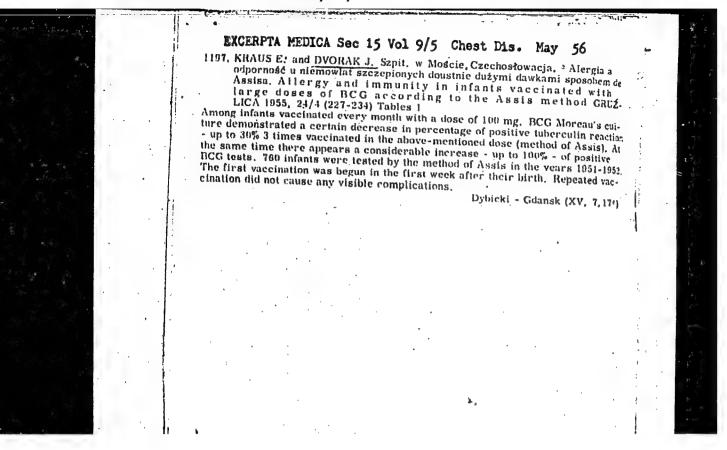
1. Z Oddzialu Gruzlicy. Ordynator: dr med. Evzen Kraus. i z Oddzialu Dzieciecego Ordynator: dr med. Jindrich Dvorak Szpitala w Moscie (Czechoslowacja)

(BCG VACCINATION, administration

oral, de Aseis method, in inf., eff. on allergy & immun.)

(TUBERCULIN REACTION

eff. of BCG vacc. orally administered according to de Assis method on allergy & sensitivity in inf.)



### DYORAK, J.: FRANCE, A.

Golor sensitivity in psychotic patients. Cas.lek.cesk. 89 no.27: 773-776 7 July 50. (GLML 19:4)

1. Psychiatric Clinic (Assistent Jindrich Dvorak, M.D.). 2. Eye Clinic (Clinic Assistant-Alexej France, M.D.).

VENCOVERY, Even, MUDr, doc.; DVORAK, Jindrich, MUDr, assistent

Hydoropsy; a contribution to the symptomatology of so called diabetic psychoses. Neur. psychiat. cesk. 18 no.1:35-40 Feb 55.

1. 2 psychiat. klin. v Pleni. Predn. Docent Mudr Even Vencovsky.

(ENDOGRIME DISEASES, complications

diabetic psychosis with hallucination of thirst)

thirst in diabetic psychosis)

(PSYCHOSES

diabetic, manifested by hallucination of thirst)

MYSLIVEGEK, J.; SEDIACEK, J.; VHKOCOVA, M.; DVORAK, J.; JENICKOVA, H.; SEMMELOVA, V.

Preparation of prothrombin, Cas. lek. cesk. 92 no.18:500-501 1 May 1953. (CIML 24:5)

- 1. Of the Physiology Department of the Medical Faculty (Head--Prof. F. Karasek, M.D.) of Charles University, Prague.

CIA-RDP86-00513R000411620018-8" APPROVED FOR RELEASE: 08/25/2000

### "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411620018-8

DUCKAK, JINDRICH VENCOVSKY, RVZen; DVORAK, Jindrich; HEMECEK, Jaroslav

Experiences with chlorpromasine treatment in psychoses. Cesk. psychiat. 53 no.2:111-116 Mar 57.

1. Psychiatricka klinika v Plani.
(PSYCHOSES, ther.
chlorpromazine (Cm))
(CHLORPROMAZINE, ther. use
psychoses (Cm))

### DVO!YAK. J.

Formation of focal dominance following deafferentiation. Cesk. fysiol. 7 no.5:449 Sept 58.

1. Ustav leteckeho zdravotnictvi, Praha.
(REFLEX, CONDITIONED,
eff. of deafferentiation on form, of focal dominance (Cz))

# "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411620018-8

Divira K. J.,

SCHECK, P., Dr.; DVORAK, J., (prom. lekar)

Experience with neuroplegic druge in traumatology. Acta chir. orthop.

trauma. cech. 25 no.3:213-218 May 58.

1. Chirurgicke oddeleni OUNZ v Benesove, predn. doc. Dr. A. Furst.

(HIBERNATION, ARTIFICIAL, ther. use
in traumatol. (Gz))

(WOUNDS AND INJURIES, ther.
artif. hibernation in traumatol. (Gz))

KODET, R.; HUSIAR, M.; DVORAK, J.

Pressure respiration with the use of a compensatory appliance and its effect on the human organism. Cesk. fysiol. 9 no.1:23-24 Ja 60.

1. Ustav leteckeho zdravotnictvi. Praha. (RESPIRATORS)

9.4172

1,3774 5/263/62/000/023/004/005 E194/E155

AUTHORS:

Vavrouch, Dusan, and Dvorák, Jiří

TITLE:

A pneumatic infrared radiation receiver

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, Izmeritel'naya tekhnika, no.23, 1962, 63, abstract 32.23.397. (Czech. patent cl. 421, 4/13, 42h, 20/01, no.99447,

April 15, 1961)

TEXT: The patented pneumatic receiver is based on the schematic circuit of an American receiver. It consists of a chamber, one wall of which is made of a material transparent to infrared radiation. Inside the chamber an absorbing element periodically receives infrared radiation through a shutter and is thereby heated, which raises the pressure of the gas in the chamber. The pressure change is picked up by an elastic reflecting diaphragm. The surface of the diaphragm is fully sealed and it is a component of an optical system consisting of a meniscus lens, a plane grating with transparent and opaque bands of equal width, a condenser, a lamp, and a photocell with mirror. If the diaphragm is flat the upper half of the grating illuminated Card 1/2

A pneumatic infrared radiation ...

S/263/62/000/023/004/005 E194/E155

by the lamp is reflected from the diaphragm and gives a reflection in the lower half of the grating. The transparent bands then coincide with the opaque, and little light reaches the photocell from the mirror and the current in the circuit is low. When the diaphragm is deformed by pressure, it becomes convex or concave and more or less radiation reaches the photocell, giving more or less current. The current is then amplified and recorded in the usual way. The chamber is connected with the internal space by a capillary so that rapid changes in the pressure do not alter the shape of the diaphragm. Obviously the backing surface to which the membrane is fixed should be very well finished and accurate so as not to introduce errors into the light distribution. Hitherto the backing has consisted of hardened carbon steel, which required prolonged heat-treatment, accurate grinding and polishing and was, moreover, rapidly corroded during the process of degreasing in an ultrasonic field. This defect affected the performance of the receiver. In the device patented the backing surface is made of easily worked minerals, whose surfaces do not corrode. [Abstractor's note: Complete translation.] Card 2/2

CZECHOSLOVAKIA

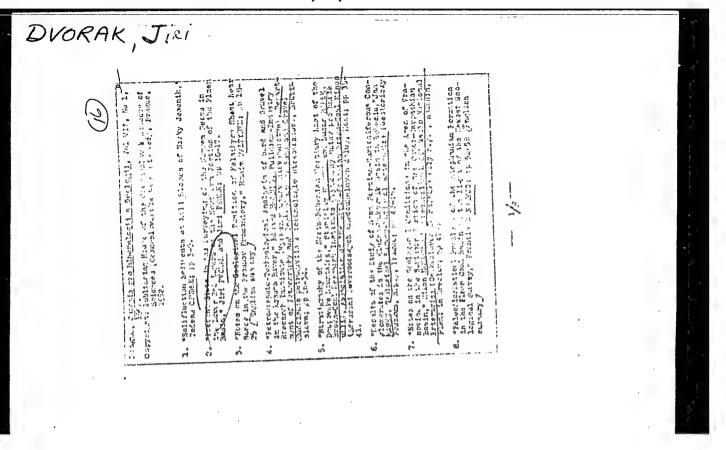
DVORAK, Jig Research Institute for Communications (Vyzkumny Ustav Spoju) in Prague.

"A Transistorized Integrator of Bio-Electrical Potentials with Decimal Divider of Output Frequency."

Prague, Activitas Nervosa Superior, Vol 5, No 4, 1963, pp 393 - 399

Abstract: Author describes an apparatus that he designed for evaluation of bioelectrical potentials. Circuit is based on an integrating amplifier. Negative feed back is from amplifier output to input. Desired voltage in capacitor starts blocking of the oscillator. Resulting pulse unblocks the transistor parallel with capacitor and discharges it. Circuit is linear, but sensitive to temperature. Transistors in blocking oscillators provide returning of cores to initial state. Output pulses are recorded as a series of short deflections; every tenth deflection is recorded with greater amplitude. 7 Figures, 2 Western, 4 Czech, 1 Russian reference.

1/1



# "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411620018-8

Dependence of wages on production results. Prace mzda 12 no.12: 558-562 D \*64.

## DVORAK, Jin

Case of congenital anastomosis of the hepatic and the inferior mesenteric arteries. Rozhl.chir. 29 no.7:288-292 1950. (CLML 20:9)

1. Of the Institute of Anatomy of Charles University, Prague (Head--Prof. L. Borovansky, M.D.).

## "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411620018-8

DVORAK J. #.

FINGERLAND, A., prof. MUDr; VORTEL, VI., MUDr; DVORAK, J., MUDr; ZDRAHAL, L., MUDr

Generalized cryptococcosis (torulosis). Cas. lek. cesk. 93 no.30: 809-816 23 July 54.

## "APPROVED FOR RELEASE: 08/25/2000

### CIA-RDP86-00513R000411620018-8

EXCERPTA MEDICA Sec. 9 Vol.11/9 Surgery Sept 1957

4483. (899) DVOŘÁK J. Ánat. Úst., Karlovy Univ., Praha. \*Nový operační přístup k loketnímu kloubu. (Přístup laterodistální). A new operative approach to the elbow joint ROZHL. CHIR. 1956, 35/6 (373-376) Illus. 4

The incision begins upon the radial epicondylus humeri, crosses the capitulum radii and ends on the dorsal part of the proximal third of ulna. It separates the extensor carpi ulnaris from extensor digitorum communis and cuts the distal part of musculus supinator at the lower part of which a transverse osteotomy of the ulna is done. By incision of the volar face of the joint capsule, dislocation of the capitulum radii and retraction of the proximal fragment of ulna, a wide view into the whole joint is obtained.

Niederle - Prague



CZECHOSLOVAKIA/Human and Animal Morphology - Muscles.

S

Abs Jour

: Ref Zhur Biol., No 5, 1959, 21525

Author

: Dvorak, Jiri

Inst Title

: The Lamina Vastoadductoria and Its Functional

Significance

Orig Pub

: Ceskosl. morfol., 1957, 5, No 1, 21-30

Abstract

: No abstract.

Card 1/1

- 18 -

 DVORAK, Jiri

1. Anatomicky ustav lekarske fakulty Karlovy university v Prase, prednosta prof. Dr. L. Borovansky.

(INTESTINES, abnorm.

malrotation with meconium ileus in newborn inf., unusual case (Cz))

(INTESTINAL OBSTRUCTION, in inf. & child

meconium ileus with intestinal malrotation in newborn inf.,

unusual case (Cz))

(MECONIUM

case)

(INFANT, NEWBORN, dis.

meconium ileus with intestinal malrotation, unusual case (Cz))

simultaneous meconium ileus. Cesk. pediat. 8 no.6:514-520 5 July 58.

An unisual case of intestinal malrotation in a newborn infant with

UHLIR, J.; POTRUSIL, B.; HANZL, J.; JOBANEK, B.; MACEK, M.; IN ORAK, J., ins.

Contribution to the problem of terylene tissue prostheses. Rozhl. chir.39 no.11:721-726 Nº60.

1. II. chirurgicka klinika v Brne, prednosta prof. dr. Jan Havratil I. patologicko-anatomicky ustav v Brne, prednosta prof.dr. Jaroslav Svejda. Vyzkumny ustav pletarsky v Brne. (ARTERIES surg)

## "APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411620018-8

DVORAK

SURNAME, Given Name:

Country: Czechoslovakia

Academic Derroes:

Chair of Nutrition and Veterinary Dietetics Veterinary College (Katedra Affiliation: a dietetiky veterinarni fakulty VSZ)Brno/Chief Dr Jaroslav KANOT/

Source: Pragres, to the the CSAZV Veterinarni Medicina Vol 6(34), No 8, Aug 61; pp 657 664

Data: "Viterin C Level in Deficient and Balanced Diets for Pigs in the Winter Serson"

DVORAK, Jiri, graduate veterinarian EKLENAR, Jaroslav

## "APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411620018-8

DVORAK, J

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: not given

Balneology Research Institute /Vyzkumny ustav balneologicky/ Director

Affiliation: /reditel/ Prof K. PREROVSKY; Working Station /pracoviste/ Frantiskove Lazne

Source: Prague, Fysiatricky Vestnik, Vol 39, No 5, Oct 1961; pp 263-264

Data: "New Data on Spa Humolit Deposits in Czechoslovakia and Role of Various Disciplines in Basic Research Thereon"

BROZEK, B. DVORAK, J.

670 981643

## DVORAK, Jiri

The Paris anatomical nomenclature (P.N.A.1955) and its final improved and revised version (New York, 1960). Cas.lek.cesk 100 no.6:180-187 10 F '61.

1. I.stomatologicka klinika KU v Praze, prednosta doc. dr Jaroslav Toman.

(NOMENCLATURE) (ANATOMY)

## "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411620018-8

DVORAK, Jiri

Some remarks on the final anatomical nomenclature of Paris. Folia morphologia 12 no. 4:323-326 '61.

1. I Klinika Stomatologiczna, Uniwersytet Karola, Praga, Czechoslovakia Kierownik: ddc. dr. J. Toman, C.Sc.

#### CZECHOSLOVAKIA

DVORAK, J., MD, CSc, Lt Col; PIPAL, M., MD, Lt Col; STVERAK, J. MD, Lt Col; and DOLEZAL, V. MD, CSc; Institute for Aviation Medicine, (Ustav leteckeho zdravotnictvi,) Prague.

"Tolerance to Hypoxia During Total Fast."

Prague, Vojenske zdravotnicke listy, Vol 32, No 2, Apr 63; pp 88-91.

Abstract [English summary modified]: Changes to tolerance to hypoxia which occurs during closed-circuit breathing in 8 healthy men aged 18 to 27 during 5 days' total fast were minimal; there was some lability and wider individual scatter; training seemed to play a role; the lack of expected decrease in tolerance is attributed to concomitant slowdown of metabolism due to fasting so that tolerance remains essentially unchanged. Six tables, 3 references: Western, Soviet, Czech unpublished.

1/1

## DVORAK, Jiri

Effect of antibiotics in feeds on the vitamin C metabolism in growing pigs. Veter medicina 8 no.1:57-64 Ja 163.

1. Chair of Nutrition and Dietetics of the Faculty of Veterinary Medicine, Higher School of Agriculture, Brno. Head of the Chair: [doc. dr.] Jaroslav Kabrt.

## DVORAK, Jiri, MVDr.

- Contribution to the explanation of vitamin C action in growing pigs. Veter medicina 9 no. 2:91-98 Mr '64.
  - 1. Chair of Mutrition, Dietetics and Zootechny, Faculty of Veterinary Medicine, Higher School of Agriculture, Brno.

# DVORZHAK, Iosef [Dvorak, Joseph]

Inventors help strengthening Czechoslovakian economics. Izebr. v SSSR. 1 no.2:41-43 Ag \*56. (MRA 10:3)

1. Redaktor "Tekhnitske Noviny" ("Tekhnicheskaya gazeta"), Praga. (Czechoslovakia--Inventions)

CZECHOSLOVAKIA

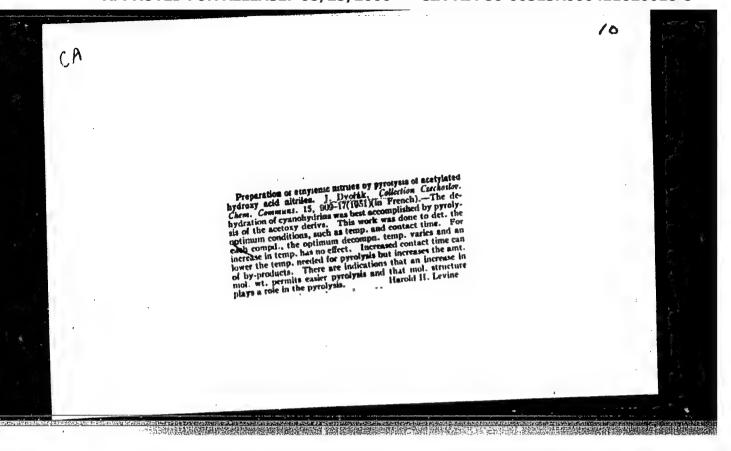
DVORAK, Josef, MD, Lt Col; ZEMAN, Miroslav, MD, Lt Col, [Affiliation not given.]

"Hypoxic Convulsions."

Prague, Vojenske zdravotnicke listy, Vol 32, No 2, Apr 63; pp 74-77.

Abstract [English summary modified]: Hypoxic convulsions in men are quite different than in dogs: in former they are mainly tonic, start with full consciousness and can be broken by attentive rhythmic deliberate tapping; in dogs they occur during inspiration only, clonic and total muscular involvement. Studies were done in 122 men and 30 dogs. Graph, 3 kymograms illustration of Lottig test (writing down numbers backwards starting from e.g. 990: 990, 989, 988, etc.); References: senior author's Czech thesis, 2 Soviet, 8 Western.

1/1

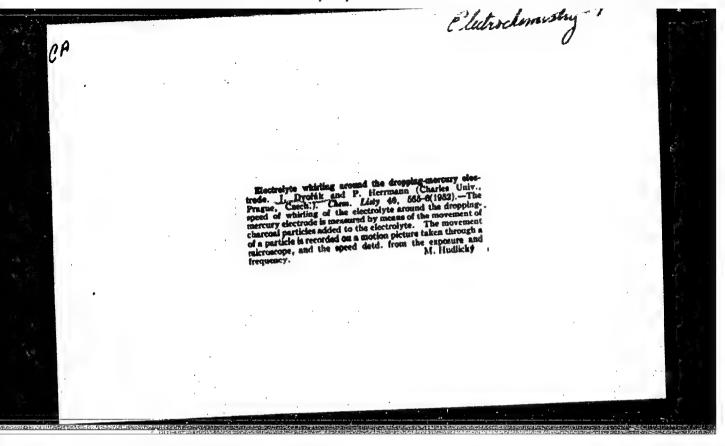


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DVORAK, Jiri

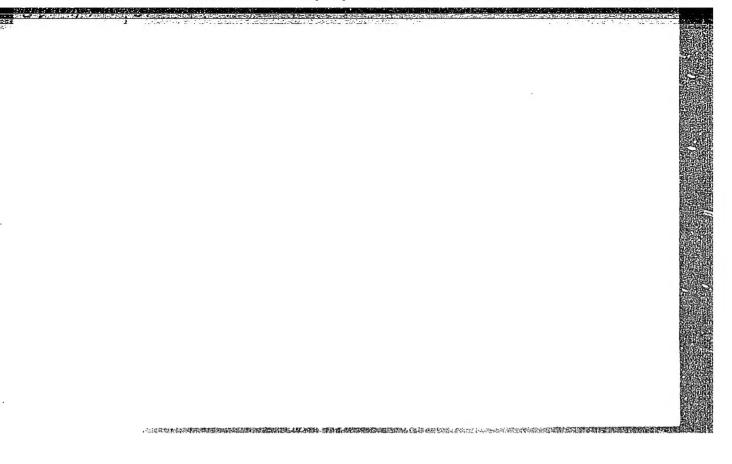
Navody ke cvicenim z fysikalni chemie. (Vyd. 1.) Praha, Statni pedagogicke nakl., 1953. 93 p. (Ucebni texty vysokych skol) (Manual for laboratory experiments in physical chemistry; a university textbook. 1st ed. illus.)

SD: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956, Uncl.

DVORAK, J.

"Ultrasonics in Practice", P. 2, (TECHNICKE NOVINY, Vol.1, No. 17/18, Dec. 1953, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (REAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.



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